

(5) The abdomen and pelvis consist of the assembly and conform to the drawings subtended by SA 150 M060, the drawings subtended by SA 150 M060 rev. A and the drawings subtended by SA-SID-087 sheet 1 rev. H, and SA-SID-87 sheet 2 rev. H.

(6) The lower limbs consist of the assemblies specified in Subpart B (§572.10) shown as SA 150 M080 and SA 150 M081 in Figure 1 and SA-SID-M080 and SA-SID-M081 and conform to the drawings subtended by those numbers.

(7) The neck mounting adaptor bracket conforms to drawing 96-SIDH3-001.

(8) Upper and middle shoulder foams conform to drawing 96-SIDH3-006.

(b) The structural properties of the dummy are such that the dummy conforms to the specifications of this subpart in every respect before being used in vehicle tests specified in Standard 201.

(c) Disassembly, inspection and assembly procedures, external dimensions, weight and drawing list are set forth in the SIDH3 User's Manual, dated May 1997.

(d) Sign convention for signal outputs is given in the reference document SAE J1733 of 1994-12, "Sign Convention for Vehicle Crash Testing."

§572.112 Head assembly.

The head assembly consists of the head (drawing 78051-61X, rev. C) with the neck transducer structural replacement (drawing 78051-383X, rev. P) and three (3) accelerometers that are mounted in conformance to §572.36 (c).

(a) Test procedure. (1) Soak the head assembly in a test environment at any

temperature between 18.9 and 25.6 degrees C. (66 to 78 degrees F.) and at a relative humidity between 10 percent and 70 percent for a period of at least four (4) hours prior to its application in a test.

(2) Clean the impact surface of the head skin and impact plate surface, described in paragraph (a)(4) of this section, with 1,1,1 trichloroethane or equivalent prior to the test.

(3) Suspend the head, as shown in Figure 51, so that the midsagittal plane makes an angle of 35 ± 1 degrees with the impact surface and its anterior-posterior axis is horizontal ± 1 degree.

(4) Drop the head from a height of 200 ± 0.25 mm (7.87 ± 0.01 inches), measured from the lowest point on the head, by a means that ensures a smooth, clean release into a rigidly supported flat horizontal steel plate, which is 51 ± 2 mm (2.0 ± 0.01 in.) thick and 610 ± 10 mm (24.0 ± 0.4 in) square. The plate shall have a dry surface and shall have a micro-finish of 0.2 microns (8 microinches) to 2.0 microns (80 microinches).

(5) Allow at least two (2) hours between successive tests on the same head.

(b) Performance criteria. (1) When the head assembly is dropped in accordance with §572.112(a), the measured peak resultant acceleration shall be between 120 and 150 G's.

(2) The resultant acceleration-time curve shall be unimodal to the extent that oscillations occurring after the main acceleration pulse shall not exceed 15 percent (zero to peak) of the main pulse. The longitudinal acceleration vector shall not exceed 15 G's.

Figure 51
HEAD DROP TEST

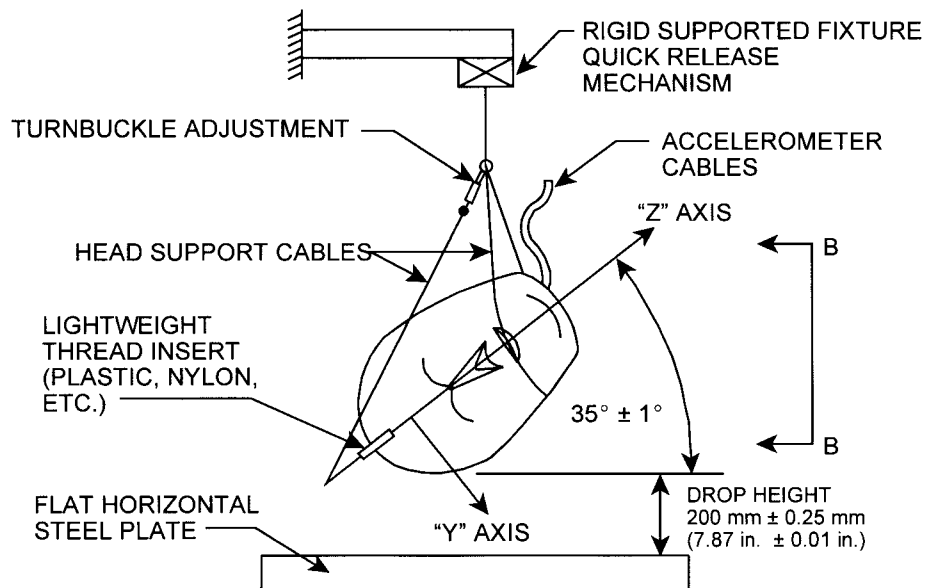
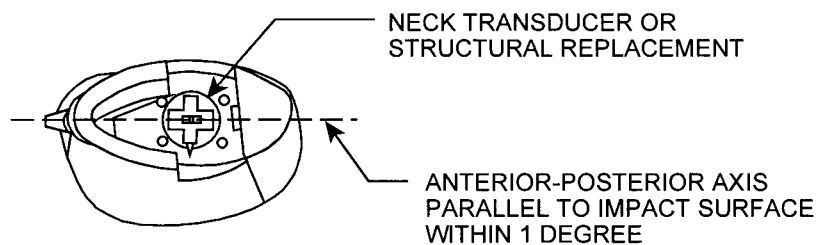


Plate is 51 mm x 610 mm x 610 mm (2 x 24 x 24 in.)
with SURFACE FINISH 0.2 microns (8 microinches) to
2.0 microns (80 microinches). IMPACT SURFACE to be
clean and dry.



VIEW B-B

§ 572.113 Neck assembly.

The head/neck assembly consists of the parts 78051-61X, rev. C; -84; -90, rev. A; -94; -98; -104, revision F; -303, rev.

E; -305; -306; -307, rev. X and has a six axis neck transducer (drawing C-1709, revision D) installed in conformance with § 572.36(d).